

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	80028	((band near2 pass) or bandpass or "band-pass" or (band adj pass)) near2 filter) or "BPF"	US-PGPUB; USPAT	OR	ON	2007/12/17 09:33
L2	136	wobble near2 signal near2 amplitude near2 (calculat\$4 or determin\$4 or judg\$4 or detect\$4)	US-PGPUB; USPAT	OR	ON	2007/12/17 09:33
L3	11	L2 near20 L1	US-PGPUB; USPAT	OR	ON	2007/12/17 09:33
L4	12	L2 same L1	US-PGPUB; USPAT	OR	ON	2007/12/17 10:33
L5	10	L2 near10 L1	US-PGPUB; USPAT	OR	ON	2007/12/17 09:33
L6	2	L4 not L5	US-PGPUB; USPAT	OR	ON	2007/12/17 09:33
L7	109186	((low near2 pass) or lowpass or "low-pass" or (low adj pass)) near2 filter) or "LPF"	US-PGPUB; USPAT	OR	ON	2007/12/17 10:33
L8	9	L2 same L7	US-PGPUB; USPAT	OR	ON	2007/12/17 10:33
S1	14	tracking adj ("lead-in" or (lead adj in))	US-PGPUB; USPAT; EPO; JPO	OR	ON	2007/12/16 12:04
S2	2	(tracking adj ("lead-in" or (lead adj in))) near20 seek\$4	US-PGPUB; USPAT; EPO; JPO	OR	ON	2007/12/16 12:06
S3	2	(tracking adj ("lead-in" or (lead adj in))) and wobble	US-PGPUB; USPAT; EPO; JPO	OR	ON	2007/12/16 12:08
S4	1	("6388963").PN.	US-PGPUB; USPAT; EPO; JPO	OR	ON	2007/12/16 12:08
S5	28	((KENZO) near2 (ISHIBASHI)).INV.	US-PGPUB; USPAT	OR	ON	2007/12/16 12:11
S6	49	((EIJI) near2 (UEDA)).INV.	US-PGPUB; USPAT	OR	ON	2007/12/16 12:11
S7	1	((MASHIRO) near2 (BIRUKAWA)).INV.	US-PGPUB; USPAT	OR	ON	2007/12/16 12:11
S8	76	S5 or S6 or S7	US-PGPUB; USPAT	OR	ON	2007/12/16 12:12
S9	20	S8 and (tracking near2 control\$4)	US-PGPUB; USPAT	OR	ON	2007/12/16 12:15
S10	12	S8 and (tracking near2 control\$4) and wobble	US-PGPUB; USPAT	OR	ON	2007/12/16 12:15
S11	4	S8 and (tracking near2 control\$4) and wobb\$4 and (filter or LPF or BPF)	US-PGPUB; USPAT	OR	ON	2007/12/16 12:14
S12	6	S8 and (tracking near2 control\$4) and wobb\$4 and ((push adj pull) or "push-pull")	US-PGPUB; USPAT	OR	ON	2007/12/16 12:15

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S13	38178	matsushita.as.	US-PGPUB; USPAT	OR	ON	2007/12/16 12:15
S14	1180	S13 and (tracking near2 control\$4)	US-PGPUB; USPAT	OR	ON	2007/12/16 12:15
S15	253	S13 and (tracking near2 control\$4) and wobbl\$4	US-PGPUB; USPAT	OR	ON	2007/12/16 12:15
S16	112	S13 and (tracking near2 control\$4) and wobbl\$4 and ((push adj pull) or "push-pull")	US-PGPUB; USPAT	OR	ON	2007/12/16 12:15
S17	62	S13 and (tracking near2 control\$4) and wobbl\$4 and ((push adj pull) or "push-pull") and (filter or LPF or BPF)	US-PGPUB; USPAT	OR	ON	2007/12/16 12:16
S18	32	S13 and (tracking near2 control\$4) and (wobbl\$4 near10 (filter or LPF or BPF)) and ((push adj pull) or "push-pull")	US-PGPUB; USPAT	OR	ON	2007/12/16 12:23
S19	1061	((push adj pull) or "push-pull") near2 ((tracking near2 error near2 signal) or (tracking adj error adj signal) or TES)	US-PGPUB; USPAT	OR	ON	2007/12/16 12:33
S20	109186	((low near2 pass) or lowpass or "low-pass" or (low adj pass)) near2 filter) or "LPF"	US-PGPUB; USPAT	OR	ON	2007/12/16 12:25
S21	80028	((band near2 pass) or bandpass or "band-pass" or (band adj pass)) near2 filter) or "BPF"	US-PGPUB; USPAT	OR	ON	2007/12/16 12:25
S23	30853	wobbl\$4 or (wobbl\$4 near2 signal)	US-PGPUB; USPAT	OR	ON	2007/12/16 12:26
S24	11	S19 near10 S20	US-PGPUB; USPAT	OR	ON	2007/12/16 12:27
S25	2	S19 near10 S23 near10 S20	US-PGPUB; USPAT	OR	ON	2007/12/16 12:32
S26	3	(S19 near10 S20) same S23	US-PGPUB; USPAT	OR	ON	2007/12/16 12:28
S27	5	S19 same S23 same S20	US-PGPUB; USPAT	OR	ON	2007/12/16 12:28
S28	42405	((push adj pull) or "push-pull") or (((push adj pull) or "push-pull") near2 signal)	US-PGPUB; USPAT	OR	ON	2007/12/16 12:32
S29	22	S28 near10 S23 near10 S20	US-PGPUB; USPAT	OR	ON	2007/12/16 12:33
S30	114570	((tracking near2 error near2 signal) or (tracking adj error adj signal) or TES)	US-PGPUB; USPAT	OR	ON	2007/12/16 13:06
S31	2	S28 near10 S23 near10 S20 near10 S30	US-PGPUB; USPAT	OR	ON	2007/12/16 12:33
S32	19	S28 same S23 same S20 same S30	US-PGPUB; USPAT	OR	ON	2007/12/16 12:42
S34	716	S28 near10 S23 near10 S23	US-PGPUB; USPAT	OR	ON	2007/12/16 12:41
S36	161	S28 near10 S21 near10 S23	US-PGPUB; USPAT	OR	ON	2007/12/16 12:41
S37	96	S28 near5 S21 near5 S23	US-PGPUB; USPAT	OR	ON	2007/12/16 12:41

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S38	8	S28 same S23 same S20 same S30 same S21	US-PGPUB; USPAT	OR	ON	2007/12/16 12:42
S39	126521	(speed or velocity) near2 (calculat\$4 or determin\$4 or judg\$4)	US-PGPUB; USPAT	OR	ON	2007/12/16 13:15
S40	618	S30 same S39	US-PGPUB; USPAT	OR	ON	2007/12/16 13:01
S41	10	S30 same S39 same spot same track	US-PGPUB; USPAT	OR	ON	2007/12/16 13:16
S42	626	(speed or velocity) near10 spot near10 track	US-PGPUB; USPAT	OR	ON	2007/12/16 13:04
S43	377	(speed or velocity) near5 spot near5 track	US-PGPUB; USPAT	OR	ON	2007/12/16 13:05
S45	149	(speed or velocity) near5 (spot near2 track)	US-PGPUB; USPAT	OR	ON	2007/12/16 13:05
S46	120949	((tracking near2 error near2 signal) or (tracking adj error adj signal) or TES) or (tracking near2 error) or (tracking adj error)	US-PGPUB; USPAT	OR	ON	2007/12/16 13:06
S47	28	((speed or velocity) near5 (spot near2 track)) same S46	US-PGPUB; USPAT	OR	ON	2007/12/16 13:09
S48	3	((speed or velocity) near5 (spot near2 track)) same S46 same (track near2 pitch)	US-PGPUB; USPAT	OR	ON	2007/12/16 13:10
S50	7	((speed or velocity) near5 (spot near5 track)) same S46 same (track near2 pitch)	US-PGPUB; USPAT	OR	ON	2007/12/16 13:11
S51	9	((speed or velocity) near10 (spot near5 track)) same S46 same (track near2 pitch)	US-PGPUB; USPAT	OR	ON	2007/12/16 13:16
S52	164321	(speed or velocity) near2 (calculat\$4 or determin\$4 or judg\$4 or detect\$4)	US-PGPUB; USPAT	OR	ON	2007/12/16 13:18
S53	3	(S52 near10 (spot near5 track)) same (track near2 pitch)	US-PGPUB; USPAT	OR	ON	2007/12/16 13:17
S54	14680	(polarity) near2 (calculat\$4 or determin\$4 or judg\$4 or detect\$4)	US-PGPUB; USPAT	OR	ON	2007/12/16 13:18
S56	37	S23 near10 S54	US-PGPUB; USPAT	OR	ON	2007/12/16 13:20
S57	140	(moving near2 direction) near10 (spot near5 track)	US-PGPUB; USPAT	OR	ON	2007/12/16 13:52
S58	1	S56 and S57	US-PGPUB; USPAT	OR	ON	2007/12/16 13:20
S62	12	((moving near2 direction) near2 (calculat\$4 or determin\$4 or judg\$4 or detect\$4)) near10 (spot near5 track)	US-PGPUB; USPAT	OR	ON	2007/12/16 14:00
S63	2	S62 same S46	US-PGPUB; USPAT	OR	ON	2007/12/16 14:01
S64	111	(direction near2 (calculat\$4 or determin\$4 or judg\$4 or detect\$4)) near10 (spot near5 track)	US-PGPUB; USPAT	OR	ON	2007/12/16 16:09
S65	29	S64 same S46	US-PGPUB; USPAT	OR	ON	2007/12/16 14:01

## EAST Search History

S66	1922	(direction near5 (spot near5 track))	US-PGPUB; USPAT	OR	ON	2007/12/16 14:09
S67	397	(speed or velocity) near5 (spot near5 track)	US-PGPUB; USPAT	OR	ON	2007/12/16 14:09
S68	70	S66 same S67	US-PGPUB; USPAT	OR	ON	2007/12/16 14:10
S69	10	S66 same S67 same S46	US-PGPUB; USPAT	OR	ON	2007/12/16 14:10
S70	22	S66 same S67 same (S46 or tracking near2 (servo\$4 or control\$4))	US-PGPUB; USPAT	OR	ON	2007/12/16 14:17
S71	0	(stabl\$6 or stabili\$6) near2 (tracking near2 (servo\$4 or control\$4)) near2 ((start adj up) or "start-up" or (start near2 up))	US-PGPUB; USPAT	OR	ON	2007/12/16 14:18
S72	1	(stabl\$6 or stabili\$6) near5 (tracking near2 (servo\$4 or control\$4)) near5 ((start adj up) or "start-up" or (start near2 up))	US-PGPUB; USPAT	OR	ON	2007/12/16 14:19
S73	1	(stabl\$6 or stabili\$6) near10 (tracking near2 (servo\$4 or control\$4)) near10 ((start adj up) or "start-up" or (start near2 up))	US-PGPUB; USPAT	OR	ON	2007/12/16 14:19
S74	58	(stabl\$6 or stabili\$6) near10 (tracking near2 (servo\$4 or control\$4)) near10 ((start adj up) or "start-up" or (start near2 up) or seek\$4)	US-PGPUB; USPAT	OR	ON	2007/12/16 14:20
S75	10	S74 and S66	US-PGPUB; USPAT	OR	ON	2007/12/16 14:20
S76	7	S74 and S66 and S67	US-PGPUB; USPAT	OR	ON	2007/12/16 14:20
S77	111	((direction or (mov\$5 near2 direction)) near2 (calculat\$4 or determin\$4 or judg\$4 or detect\$4)) near10 (spot near5 track)	US-PGPUB; USPAT	OR	ON	2007/12/16 16:11
S78	128207	((mov\$6 or (relative near2 mov\$6)) near2 (speed or velocity))	US-PGPUB; USPAT	OR	ON	2007/12/16 16:14
S79	6	S77 same S78	US-PGPUB; USPAT	OR	ON	2007/12/16 17:40
S80	471	wobble near2 signal near2 amplitude	US-PGPUB; USPAT	OR	ON	2007/12/16 17:42
S81	24	S80 near10 S21	US-PGPUB; USPAT	OR	ON	2007/12/16 17:42
S82	136	wobble near2 signal near2 amplitude near2 (calculat\$4 or determin\$4 or judg\$4 or detect\$4)	US-PGPUB; USPAT	OR	ON	2007/12/16 17:42
S83	10	S82 near10 S21	US-PGPUB; USPAT	OR	ON	2007/12/17 09:33
S86	2	S82 near10 S20	US-PGPUB; USPAT	OR	ON	2007/12/16 17:46
S87	5	S82 near20 S20	US-PGPUB; USPAT	OR	ON	2007/12/16 17:48
S88	0	S82 near20 (remov\$4 near2 dc near2 component)	US-PGPUB; USPAT	OR	ON	2007/12/16 17:49